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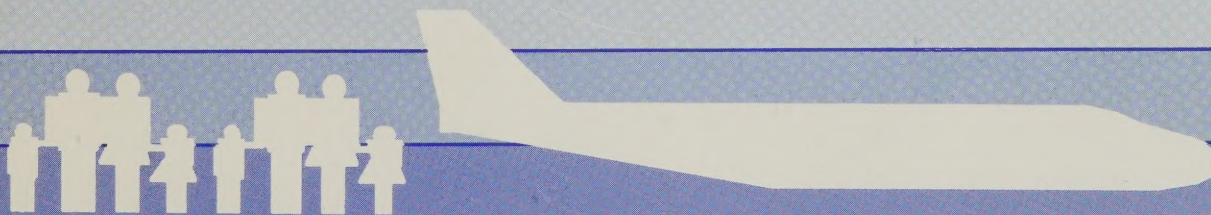
Aircraft Maintenance Engineer and
Air Traffic Controller

SECOND EDITION

December 1987



Assuring your Safety



Canada

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FOREWORD

Personnel Licensing Handbook

Volume 2 - Aircraft Maintenance Engineer and Air Traffic Controller Licences

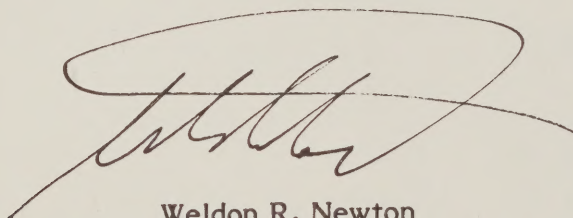
Those persons who certify or control aircraft in Canada are required under Part IV of the Air Regulations to hold a licence appropriate to their duties. The qualifications relating to Aircraft Maintenance Engineer and Air Traffic Controller Licences are set forth in this Volume of the Personnel Licensing Handbook which is published under the authority of the Minister of Transport and pursuant to subsection 403(2) of the Air Regulations.

The holder of an Aircraft Maintenance Engineer Licence may exercise the privileges of the licence provided that the period of validity as determined from the licence has not expired and the recency of experience requirements have been met.

An Air Traffic Controller Licence includes an attachment thereto which is entitled, Licence Validation Certificate. The holder of an Air Traffic Controller Licence may exercise the privileges of the licence, provided that the period of validity as determined from the Licence Validation Certificate has not expired.

Throughout the Handbook, references are made to various Department of Transport publications. The source and cost of these publications are set forth in the List of Civil Aviation Publications which may be obtained free of charge from:

Transport Canada
AANDHD
Ottawa, Ontario, Canada
K1A 0N8



Weldon R. Newton
Acting Director General, Aviation Regulation

PERSONNEL LICENSING HANDBOOK

VOLUME 2 - AIRCRAFT MAINTENANCE ENGINEER AND AIR TRAFFIC CONTROLLER LICENCES

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PART I

AIRCRAFT MAINTENANCE ENGINEER LICENCE

CHAPTER 1

GENERAL REQUIREMENTS

1. Applicability

This chapter prescribes the general requirements for the issue, endorsement for additional ratings and renewal, of an Aircraft Maintenance Engineer (AME) Licence issued under Part IV of the Air Regulations. It must be applied in conjunction with the requirements applicable to the particular category of licence under consideration, listed in the appropriate tables and schedules of Part I, Chapter 2.

2. International Civil Aviation Organization

Canada is a contracting state to the International Civil Aviation Organization (ICAO) and AME licences issued under Part IV of the Air Regulations comply with ICAO standards. Licence categories "A" and "R" are equivalent to ICAO Type II licences, and categories "E", "B", "D" and "P" are equivalent to ICAO restricted Type I licences.

3. Inquiries

Inquiries regarding AME licencing should be directed to the Department of Transport regional or district office appropriate to the applicant's place of residence. These offices are listed in Transport Canada publication TP 3043E, for categories "A" and "R" and TP 4912E for category "E", "Study and Reference Guide for the Aircraft Maintenance Engineer Licence", which provide advisory material to supplement this volume.

4. Categories of AME Licence

An AME Licence is issued in one or more of the following categories, for the certification of maintenance of the aeronautical products shown:

- (a) Aeroplanes, gliders, and balloons - category "A"
- (b) Rotorcraft and balloons - category "R"
- (c) Avionics - category "E"
- (d) Aeroplane airframes - category "B"
- (e) Rotorcraft airframes - category "B(R)"
- (f) Engines - category "D"
- (g) Propellers - category "P"

An AME licensed in any one category may, upon meeting the requirements for another category, be issued a new licence endorsed for the additional category.

5. Privileges

The privileges applicable to each category of AME licence are set forth in the Air Navigation Orders, Series IV, No. 6.

6. Ratings

The ratings of an AME licence (the aeronautical products in respect of which the privileges of the licence may be exercised) will be indicated by designators endorsed on the licence. The licence privileges will apply to the type, or group of types of aircraft or other aeronautical products listed against those designators in Part I, Appendix "B".

7. Requirements for issue of an AME licence

(a) Language

The applicant must be able to read, write and understand either the English or the French language.

(b) Age

The applicant must have attained the age of 21 years.

(c) Training and Experience

The applicant must provide proof of having acquired the training and aviation maintenance experience listed in Part I, Chapter 2 as requirements for the category and ratings requested. The experience claimed must be applicable to the full range of responsibilities of the category of licence for which application is made; for example in categories "A" and "R", experience shall be in the maintenance of both airframes and installed powerplants.

For the purposes of assessing an applicant's experience, maintenance includes repair, overhaul, inspection, modification and the replacement of parts, or equivalent experience acceptable to the Chief, Airworthiness Inspection, but does not include servicing (i.e. cleaning, lubricating and the replenishment of fluids), or, except as provided in (d), work performed as part of operating crew duties.

Experience may be obtained in either full time or part time employment. Applicants who claim experience in respect of part time employment will be required to produce records to

substantiate the actual hours worked. For the purpose of assessing experience claims, 1 year shall be taken to consist of 1800 working hours. No credit will be allowed for experience in excess of 150 hours in any one month.

Except in the case of an applicant who holds a licence issued by a Contracting State, at least 6 months of the required total experience shall be in the maintenance of Canadian registered civil aircraft or shall have been obtained in a Canadian approved maintenance organization.

(d) Recency of Experience

In the case of an application for issue, 6 months of the required total experience shall have been obtained within the 2 years immediately preceding the date of application. Experience as a flight engineer or student of an approved course listed in Part I, Appendix "C" will be accepted when assessing an applicant's recency of experience.

(e) Required Tasks

In the case of an application for initial issue or endorsement to include a new category, in addition to meeting the experience requirements, the applicant must provide proof of having performed the required tasks listed in the appropriate schedule of Part I, Chapter 2.

(f) Letters of Recommendation

At the time of application an applicant shall provide a letter of recommendation from an AME licensed in the category for which application is made or from a representative of an approved company holding equivalent privileges. The letter shall be dated not more than 12 months prior to the date of application, and shall indicate:

- (i) that the writer considers the applicant has reached a satisfactory standard of experience, knowledge and skill to present himself for the examination(s), and
- (ii) in the case of applicants for initial issue of a licence or for endorsement to include a new category, reference to those items on the list of required tasks which the applicant has performed.

Applicants who can provide proof of holding privileges equivalent to those for which application is made shall be exempt from the requirement to provide a letter of recommendation.

(g) Tests and Examinations

The applicant must successfully complete all of the tests and/or examinations appropriate to the licence category and ratings requested, as listed in the relevant table of Part I, Chapter 2. Examination syllabi are listed in TP 3043E and TP 4912E. All tests and examinations shall be completed during a 12 month period, except in the case of an application for an additional rating where credit will be granted for those examinations passed in relation to the rating(s) already held.

8. Admission to Written Examinations

- (a) An applicant for an AME licence may be admitted to the written examinations during the 6 month period prior to meeting the total experience requirement, provided that at the time of attempting the engine examination, the applicant has acquired at least 50% of the experience applicable to the engine class (i.e. turbine or piston) requested.
- (b) Applicants who successfully complete the examinations during the final 6 months of obtaining the total experience will be issued with the licence upon submission of acceptable proof of having obtained all the required experience.
- (c) An applicant who fails an examination on the first attempt may not be re-examined on the same subject sooner than 30 days following the failure. An applicant who fails an examination on the second or subsequent attempt may not be re-examined on the same subject until the end of such period as may be determined by the Department from a review of the examination results and/or interview. This period shall not exceed 6 months. The applicant will be advised when the examination may be re-attempted, and whether evidence of further theoretical study and/or practical experience is required.

9. Charges

Charges applicable to an AME licence are set forth in section 820 of the Air Regulations.

10. Application Form

Applications for issue or endorsement of an AME licence shall be made on form 26-0028, which is available on request from any Department of Transport regional or district office. An example of a completed application form may be found in Part I, Appendix "A".

11. Application Procedures

The general procedures for submission of applications for issue, renewal or endorsement of an AME licence are summarized below:

- (a) All three copies of the application form must be submitted to the appropriate regional or district office. Records relating to the training and experience claimed should be attached. Documents attesting to an applicant's training and experience may be in English or French. Translation from any other language shall be the applicant's responsibility. These documents must not be in abbreviated or coded form, but in plain language. In cases where it is not possible to verify the experience claimed, the Department may administer a practical test.
- (b) In the case of an application for issue, the applicant shall also provide proof of:
 - (i) citizenship, in the form of:
 - (A) a birth or baptismal certificate issued in Canada or in a state whose citizens do not require a passport to enter Canada;
 - (B) a valid passport;
 - (C) a citizenship certificate;
 - (D) a Canadian Immigration Record and Visa, form IMM 1000; or
 - (E) a valid aviation personnel licence showing the citizenship of the holder and issued by the state of which he is a citizen; and
 - (ii) age, in the form of:
 - (A) a Canadian citizenship certificate;
 - (B) a birth or baptismal certificate;
 - (C) a passport; or
 - (D) a statutory declaration.
- (c) All supporting documents must be either original documents, or notarized as certified true copies of the original documents.
- (d) Following a review of the application and supporting documents the applicant will be advised of his or her acceptance or otherwise, and notified of the examinations he or she may attempt.
- (e) Upon meeting all of the applicable requirements, including successful completion of the examinations and tests and upon remission of the appropriate fee, the licence will be issued.

12. Licence Renewal

The normal period of validity of a licence is 5 years. To ensure continuing validity, application for renewal should be made during the 60 days immediately preceding the "valid to" date shown on the licence. Upon receipt of an application for renewal (and at the time of endorsement for additional privileges) the licence will be renewed for a further 5 year period, commencing on the first day of the month following the date of the licensing action.

13. Change of Address

The holder of an AME licence shall notify the Regional Manager of Airworthiness of the region in which he resides, or in the case of a licence holder not resident in Canada, the Superintendent, AME Licensing, Airworthiness Branch, of any change of permanent address within 7 days following that change.

14. Change of Name

A licence holder who wishes to change the name shown on his or her AME licence due to marriage, court order, or other reason, is required to submit the following declaration:

"I am the holder of the AME licence number _____ issued in the name _____. The name that I am known by and commonly use and that I wish to appear on my licence is _____.

Date _____ Signed _____ "
(Assumed Name)

15. Change of Citizenship

The AME licence of a person whose citizenship has changed may be replaced without charge, upon submission of an application for issue, annotated "Change of citizenship" in the area marked "Category and Ratings requested". The application must be accompanied by proof of citizenship (citizenship certificate, valid passport, etc.).

16. Replacement of Licence Which Has Been Lost, Damaged or Destroyed

An AME licence that has been lost, damaged, or destroyed may be replaced upon application to the Regional Manager, Airworthiness. The application should consist of the following declaration:

"I _____ hereby certify that I am the holder of AME Licence number _____. I declare that the said document has been lost/destroyed/damaged and I hereby apply for a replacement.

_____ "
Date Signature of Applicant

NOTE 1: Where available, the damaged licence should be returned for cancellation at the time of application for a replacement.

NOTE 2: Where applicable, the charge listed in Section 820 of the Air Regulations will be imposed.

CHAPTER 2 - SPECIFIC RATING REQUIREMENTS

1. Applicability

This chapter, together with the general requirements of Part I, Chapter 1, prescribes the requirements for the issue or endorsement of a licence with a particular category or rating.

2. Basic Training Requirement (Categories A, R and E)

An applicant for a licence in Category "E" must provide proof of having completed an acceptable course in electronics. Effective January 1st 1990, an applicant for an AME licence in category "A" or "R" must provide proof of having completed an acceptable course in aircraft maintenance. The approved maintenance training programs described in Part I, Appendix "C" meet these requirements. Other training courses will be assessed upon request.

3. Experience and Examination Requirements

The applicant must have acquired the experience and type training and must successfully complete all of the examinations applicable to the rating(s) requested, in accordance with the appropriate table of requirements as follows:

| CATEGORY | TABLE |
|-------------|-------|
| "A" | 1 |
| "R" | 1(a) |
| "E" | 2 |
| "B" | 3 |
| "B(R)" | 3(a) |
| "D" and "P" | 4 |

4. Approved Training Credit

The experience requirements may be reduced in the case of graduates of approved basic training or conversion courses, by the amount specified against these courses in Part I, Appendix "C". Such credit shall only be applicable to the particular type of experience specified, and shall not be taken into account in relation to any other requirement.

5. Required Tasks

The applicant must provide proof of having performed the required tasks listed in the schedule appropriate to the category of licence requested as follows:

| CATEGORY | SCHEDULE |
|----------------|----------|
| "A" | A |
| "R" | R |
| "E" | E |
| "B" and "B(R)" | B |
| "D" | D |
| "P" | P |

TABLE 1
TABLE OF REQUIREMENTS - CATEGORY A

| RATINGS (refer to list of type designators in Appendix "B") | EXPERIENCE (months) | | | EXAMINATIONS | | | | | | |
|---|----------------------------|-----------------------|-----------------------------|-----------------|------------|------------------|----------------|-----------------|------------------|----------------------|
| | Total Aircraft Maintenance | Aeroplane Maintenance | Small Aeroplane Maintenance | Air Regulations | Airframes* | Turbine Engines* | Piston Engines | Pressurization* | Type Examination | Approved Type Course |
| All aeroplanes designated as "A1" *** | 36 | 12 | 6 | X | X | | X | | | |
| All aeroplanes designated as "A2" | 36 | 12 | 6 | X | X | | X | X | | |
| All aeroplanes designated as "A3" *** | 36 | 12 | 6 | X | X | X | | | | |
| All aeroplanes designated as "A4" | 36 | 12 | 6 | X | X | X | | X | | |
| All aeroplanes designated as "A5" *** | 36 | 12 | 6 | X | X | X | X | | | |
| All aeroplanes designated as "A6" | 36 | 12 | 6 | X | X | X | X | X | | |
| Individual types of piston powered unpressurized aeroplanes not covered by "A1" rating | 36 | 12 | | X | X | | X | | X OR | X |
| Individual types of piston powered pressurized aeroplanes not covered by "A2" rating | 36 | 12 | | X | X | | X | X | X OR | X |
| Individual types of turbine powered unpressurized aeroplanes not covered by "A3" rating | 36 | 12 | | X | X | X | | | X OR | X |
| Individual types of turbine powered pressurized aeroplanes not covered by "A4" rating or listed below. | 36 | 12 | | X | X | X | | X | X OR | X |
| The following individual aircraft type: DC-8, DC-9, DC-10, B707, B727, B737, B747, B767, L1011, A300, F-28, BAC-111 | 48 | 24 ** | | X | X | X | | X | | X |

* NOTE 1: Graduates of the air carrier basic training programs provided by Air Canada or Canadian Airline International are exempt from the examinations "Airframes", "Turbine Engines" and "Pressurization".

NOTE 2: Not less than 6 months of the experience claimed shall be in the maintenance of aircraft powered by engines of the same class (i.e. turbine or piston).

** NOTE 3: Must include at least 12 months experience in the maintenance of one or more of the types listed.

NOTE 4: An AME licence rated for "A" privileges may be extended to cover balloons upon proof of 6 months experience in balloon maintenance.

*** NOTE 5: A1, A3, A5 (unpressurized ratings) will not be issued after January 1, 1988. "Aeroplane Maintenance" and "Pressurization" examinations will be combined after that date.

NOTE 6: The applicant must have at least 6 months experience on the type or on similar types (e.g. turboprop, wide body, etc.).

TABLE 1(a)
TABLE OF REQUIREMENTS - CATEGORY R

| RATINGS (refer to list of designators in Appendix "B") | EXPERIENCE (months) | | EXAMINATIONS | | | | | Approved Type Course |
|---|-------------------------------|---------------------------|-----------------|----------------------|-----------------|----------------|------------------|-------------------------|
| | Total Aircraft Maintenance | Rotorcraft Maintenance | Air Regulations | Rotorcraft Airframes | Turbine Engines | Piston Engines | Type Examination | |
| Individual types of piston powered rotorcraft | 36 | 12 | X | X | | X | X OR X | |
| Individual types of turbine powered rotorcraft | 36 | 12 | X | X | X | | X OR X | |

NOTE 1: An AME licence rated for "R" privileges may be extended to cover balloons upon proof of 6 months experience in balloon maintenance.

NOTE 2: Not less than 6 months of the experience claimed shall be in the maintenance of aircraft powered by engines of the same class (i.e. turbine or piston).

TABLE 2
TABLE OF REQUIREMENTS - CATEGORY E

| RATINGS (refer to list of type designators in Appendix "B") | EXPERIENCE (months) | | EXAMINATIONS | | | | | | | Completion of Dot Approved Course |
|--|-------------------------------|-----------------------------------|-----------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------------|---|------------------------|--------------------------------------|
| | Total Aviation Maintenance | Installed Avionics Maintenance | Air Regulations | General Aircraft Knowledge | General Avionics Knowledge | Communications & Navigation | Aircraft Electrical & Instrument | Hydromechanical/ Pneumatic/Propulsion Systems | Auto Flight Systems | |
| All avionics designated as "E1" | 36 | 12 | X | X | X | X | | | | |
| All avionics designated as "E2" | 36 | 12 | X | X | X | | X | | | |
| All avionics designated as "E3" | 36 | 12 | X | X | X | | X | | | X |
| All avionics designated as "E4" | 36 | 12 | X | X | X | | | X | | |
| All avionics designated as "E5" | 36 | 12 | X | X | X | | | X | | X |
| All avionics designated as "E6" | 36 | 12 | X | X | X | | | | X | X |
| All avionics designated as "E7" | 36 | 12 | X | X | X | | | | X | X |

NOTE: Refer to implementation procedures Appendix "D". Credit may be claimed for any examination exemptions granted under the Category "E" implementation procedure. This credit may also be applied to subsequent endorsements; e.g. an applicant who was exempt from the examination on auto flight systems on initial application for an "E6" rating may retain this exemption when subsequently applying for an "E7" rating.

TABLE 3
TABLE OF REQUIREMENTS - CATEGORY B

| RATINGS (refer to list of type designators in Appendix "B") | EXPERIENCE (months) | | EXAMINATIONS | | | | | | |
|--|----------------------------|---------------------------------------|-----------------|-----------|-------------------|--------------------------|-------------------------|----------------|------------------|
| | Total Aviation Maintenance | Major Repair or Overhaul of Airframes | Air Regulations | Materials | Airframes General | Airframes-Tubular & Wood | Airframes-Stressed Skin | Pressurization | Type Examination |
| All airframes designated as "B1" | 60 | 24 | X | X | X | X | | | |
| All airframes designated as "B2" | 60 | 24 | X | X | X | | X | | |
| All airframes designated as "B3" | 60 | 24 | X | X | X | X | X | | |
| All airframes designated as "B4" | 60 | 24 | X | X | X | | X | X | |
| All airframes designated as "B5" | 60 | 24 | X | X | X | X | X | X | |
| Individual types of unpressurized airframes not covered by "B5" rating | 60 | 24 | X | X | X | X OR* X | | | X |

*as applicable

TABLE 3(a)
TABLE OF REQUIREMENTS - CATEGORY B(R)

| RATINGS (refer to list of designators in Appendix "B") | EXPERIENCE (months) | | EXAMINATIONS | | | | | | |
|---|----------------------------|---|-----------------|-----------|------------------------------|-------------------------|-------------------|------------------|-------------|
| | Total Aviation Maintenance | Major Repair or O/H of Rotorcraft Airframes | Air Regulations | Materials | Rotorcraft Airframes General | Airframes-Stressed Skin | Airframes-Tubular | Type Examination | Type Course |
| Individual types of stressed skin rotorcraft airframes | 60 | 24 | X | X | X | X | | X OR X | |
| Individual types of tubular rotorcraft airframes | 60 | 24 | X | X | X | | X | X OR X | |

TABLE 4
TABLE OF REQUIREMENTS - CATEGORIES D AND P

| RATINGS (refer to list of designators in Appendix "B") | EXPERIENCE (months) | | | EXAMINATIONS | | | | | | |
|---|-------------------------------|---------------------|------------------------|-----------------|-----------|----------------------------------|---------------------------------|--|--------------------|---------------------|
| | Total Aviation Maintenance | Overhaul of Engines | Overhaul of Propellers | Air Regulations | Materials | Reciprocating Engines-General | Reciprocating Engines-Radial | Reciprocating Engines- Inline & Opposed | Propellers General | Propellers Overhaul |
| All engines designated as "D1" | 36 | 24 * | | X | X | X | | X | | |
| All engines designated as "D2" | 36 | 24 * | | X | X | X | X | | | |
| All engines designated as "D3" | 36 | 24 * | | X | X | X | X | X | | |
| All propellers designated as "P1" | 36 | | 24 | X | X | | | | X | X |

* NOTE: At least 12 months experience in the overhaul of the class of engine (i.e. opposed/in-line or radial) for which application is made.

SCHEDULE "A"

Applicants must provide proof of having performed satisfactorily at least 20 of the following tasks, which must include those identified as mandatory:

- *(1) Complete a scheduled inspection (annual or nearest equivalent) of an aircraft. (This task may be completed in segments on a number of different aircraft over a period of time, in order to cover the equivalent of an inspection of a complete aircraft).
- ** (2) Adjust a carburettor or a fuel control unit.
- ** (3) Install and time a magneto.
- *(4) Rig and adjust engine controls.
- *(5) Complete a test of all systems during an engine or simulator run-up.
- ** (6) Replace a reciprocating engine cylinder assembly.
- (7) Complete a hot section inspection of a turbine engine.
- (8) Test an electrical charging system.
- (9) Prepare or amend an electrical load analysis.
- (10) Perform a capacity check on an aircraft battery.
- (11) Perform a pre-flight check of avionics systems.
- (12) Prepare or amend an aircraft weight and balance report.
- (13) Perform a compass swing.
- (14) Check and bleed a hydraulic brake system.
- (15) Make a metal skin repair.
- (16) Rig, and check operation of a retractable landing gear.
- (17) Test a pitot-static system for leaks.
- (18) Inspect and test environmental control system.
- (19) Inspect and test anti-icing and/or de-icing systems.
- *(20) Rig and adjust, or check correct operation of, flight controls.
- (21) Make a fabric repair.

- (22) Install and test a propeller.
- **(23) Dress out damaged areas on a propeller blade.
- (24) Perform a fuel flow check.
- (25) Perform a liquid penetrant inspection.
- (26) Rectify corrosion in an aircraft structure.
- *(27) Check an aircraft for compliance with airworthiness directives.
- *(28) Check an aircraft for compliance with its approved configuration, equipment and placards.
- * Task is mandatory in all cases.
- ** Task is mandatory only when applicable to rating requested.

SCHEDULE "R"

Applicants must provide proof of having performed satisfactorily at least 22 of the following tasks, which must include those identified as mandatory:

- *(1) Complete a scheduled inspection (annual or nearest equivalent) of a rotorcraft. (This task may be completed in segments on a number of different rotorcraft over a period of time, in order to cover the equivalent of an inspection of a complete rotorcraft).
- ** (2) Adjust a carburettor or a fuel control unit.
- ** (3) Install and time a magneto.
- *(4) Rig and adjust engine controls.
- *(5) Complete a test of all systems during an engine run-up.
- ** (6) Replace a reciprocating engine cylinder assembly.
- (7) Complete a hot section inspection of a turbine engine.
- (8) Test an electrical charging system.
- (9) Prepare or amend an electrical load analysis.
- (10) Perform a capacity check on an aircraft battery.
- (11) Perform a pre-flight check of avionics systems.
- (12) Prepare or amend a rotorcraft weight and balance report.
- (13) Perform a compass swing.
- (14) Check and bleed a hydraulic brake system.
- (15) Make a metal skin repair.
- (16) Install and rig landing gear.
- (17) Test a pitot-static system for leaks.
- (18) Inspect and test environmental control system.
- (19) Inspect and test anti-icing and/or de-icing systems.
- *(20) Rig and adjust, or check correct operation of, flight controls.
- *(21) Install and rig swash plate.

- *(22) Rig and adjust cyclic and collective controls.
 - *(23) Install, rig, balance and track tail rotor assembly.
 - *(24) Install, rig, balance and track main rotor assembly.
 - *(25) Install and align tail rotor drive shaft.
 - (26) Replace and rig tail rotor controls.
 - (27) Inspect after heavy landing or contact between rotor blades and obstacles.
 - *(28) Investigate and rectify high/low frequency vibrations.
 - *(29) Check a rotorcraft for compliance with airworthiness directives.
 - *(30) Check a rotorcraft for compliance with its approved configuration, equipment and placards.
- * Task is mandatory.
- ** Task is mandatory only when applicable to rating requested.

SCHEDULE "E"

Applicants must provide proof of having performed satisfactorily at least 10 of the following tasks, which must include those identified as mandatory:

- ** (1) Complete a scheduled inspection (annual or nearest equivalent) of the avionics equipment installed in an aircraft. (This task may be completed in segments on a number of different aircraft over a period of time.)
- * (2) Perform wire splicing, stripping soldering, tying, routing.
- * (3) Prepare and install a section of co-axial cable.
- * (4) Use electrical/electronic test equipment.
- * (5) Reading of wiring diagrams and structural blueprints.
- ** (6) Perform operational check of aircraft avionics systems.
- (7) Troubleshoot various aircraft avionics systems.
- ** (8) Inspect and repair pitot-static and instrument systems.
- ** (9) Recondition a nickel-cadmium battery.
- ** (10) Inspect and test aircraft AC and DC electrical circuits.
- (11) Prepare an amendment to an electrical load analysis.
- (12) Prepare a weight and balance amendment.
- ** (13) Calibrate a magnetic compass.
- (14) Perform electromagnetic interference (EMI) and radio frequency interference (RFI) tests of installed avionics systems.
- (15) Perform a task involving minor structural work including drilling operations to aircraft structure.
- (16) Install an aircraft antenna.
- ** (17) Check an aircraft for compliance with airworthiness directives.
- ** (18) Calibrate a flight data recorder sensor system.
- * Task is mandatory in all cases.
- ** Task is mandatory only when applicable to rating requested.

SCHEDULE "B"

Applicants must provide proof of having performed satisfactorily all of the following tasks, as applicable to the rating requested.

- (1) Modify or repair an aircraft primary structure. (provide description)
- (2) Inspect and test an aircraft weld.
- (3) Weigh aircraft, compute centre of gravity and complete weight and balance report or amendment thereto.
- (4) Rigging and alignment check of complete aircraft.
- (5) Rectify corrosion in aircraft primary structure.
- (6) Check an aircraft for compliance with airworthiness directives.

SCHEDULE "D"

Applicants must provide proof of having performed satisfactorily all of the following tasks:

- (1) Disassemble, inspect and prepare reports on a reciprocating engine.
- (2) Final assembly and inspection of reciprocating engine after overhaul.
- (3) Run-in of a reciprocating engine.
- (4) Calibration of a carburettor or fuel injection unit.
- (5) Grind valves.
- (6) Fitting, machining and assembly of parts.
- (7) Hone cylinders.
- (8) Use and care of precision instruments.
- (9) Test an engine following overhaul, including use of power curves.
- (10) Troubleshoot a reciprocating engine.
- (11) Application of current anti-corrosion methods.
- (12) Check an engine for compliance with airworthiness directives.

SCHEDULE "P"

Applicants must provide proof of having performed satisfactorily all of the following tasks:

- (1) Fitting, machining and assembly of parts.
- (2) Rectify distorted blades within cold straightening limits.
- (3) Twist blades of one piece metal propeller.
- (4) Grind, polish and trim blades.
- (5) Inspect blades by the aid of the etching or anodic process.
- (6) Application of current anti-corrosion methods.
- (7) Check a propeller for compliance with airworthiness directives.

DEPARTMENT OF TRANSPORT
AIRCRAFT MAINTENANCE ENGINEER LICENCE
APPLICATIONMINISTÈRE DES TRANSPORTS
LICENCE DE MÉCANICIEN D'ENTRETIEN D'AÉRONEFS
DEMANDE☒ FOR ISSUE
DE DÉLIVRANCE☐ FOR ENDORSEMENT
D'ANNOTATION☐ FOR RENEWAL
DE RENOUVELLEMENT

DOT FILE NO. - N° DE DOSSIER

5802 -

010

A TO BE COMPLETED BY APPLICANT - À ÊTRE REMPLI PAR LE CANDIDAT(E)

| | | | | | |
|---|--|---|--|---|----------------------------|
| FULL GIVEN NAME(S) (NO INITIALS) - PRÉNOM(S) AU COMPLET (PAS D'INITIALES) | | SURNAME - NOM DE FAMILLE | | 120 | SEX - SEXE |
| 050 JOHN HENRY | | SMITH | | <input checked="" type="checkbox"/> M | <input type="checkbox"/> F |
| MAILING ADDRESS - NO. AND STREET - ADRESSE POSTALE - NUMÉRO ET RUE | | APT. NO. - N° APP | | TEL. NO. - N° DU TEL. | |
| 060 1234 AVIATION ROAD | | 403 | | 431-9120 | |
| CITY/TOWN - VILLE/VILLAGE | | PROVINCE | | POSTAL - CODE - POSTAL | |
| 070 BYTOWN | | ONTARIO | | 080 K1G 4B5 | |
| DATE (OF BIRTH - DE NAISSANCE) | | PRESENT RATINGS (IF APPLICABLE) QUALIFICATIONS PRÉSENTES (AU BESOIN) | | CATEGORY AND RATINGS REQUESTED CATÉGORIE ET QUALIFICATIONS DEMANDÉES | |
| 110 17-06-59 | | - | | CATEGORY A | |
| CITIZEN OF - CITOYEN(INE) DE | | | | BOEING-747 | |
| 130 CANADA | | | | | |
| LICENCE NO. - N° (IF APPLICABLE - AU BESOIN) | | | | | |
| 170 | | | | | |

STATEMENT OF PRACTICAL EXPERIENCE AND TRAINING - COMPTE RENDU DE L'EXPÉRIENCE PRATIQUE ET D'ENTRAÎNEMENT

| EMPLOYER/SCHOOL EMPLOYEUR/ÉCOLE | DATE FROM TO DE A | NATURE OF DUTIES/TRAINING (LINE MAINTENANCE OVERHAUL ETC.) NATURE DES DEVOIRS/ENTRAÎNEMENT (MAINTENANCE PRIMAIRE, RÉVISION, ETC.) | TYPE OF EQUIPMENT/COURSE (MODEL OF AIRCRAFT ETC.) TYPE D'ÉQUIPEMENT/COURS (MODÈLE D'AÉRONEF ETC.) |
|------------------------------------|-------------------------|--|--|
| Centuri Aviation College | Sept 83 Aug 84 | Student a/c technician | Basic training |
| South-East Air | Sept 84 Jan 86 | Line maintenance | B747, DC8, DC10 |
| Gray's Airways | Feb 86 Present | C/O checks | B747, L1011 |
| Boeing | Nov 84 Dec 84 | Endorsement course | B747 |
| | | | |
| | | | |
| | | | |

ALL INFORMATION ON THIS FORM AND THAT SUPPLIED IN SUPPORTING
DOCUMENTATION IS ACCURATETOUTES INFORMATIONS SOUMISES DANS CETTE DEMANDE ET
DANS LA DOCUMENTATION FOURNIE AVEC CETTE DEMANDE SONT
EXACTES

John Smith
SIGNATURE (OF APPLICANT - DU CANDIDAT(E))

DJ M Y-A
23 11 87
DATE

B TO BE COMPLETED BY DEPARTMENT - À L'USAGE EXCLUSIF DU MINISTÈRE

DEPARTMENTAL ASSESSMENT AND REMARKS (IF APPLICABLE) - ÉVALUATION DU MINISTÈRE ET COMMENTAIRES (AU BESOIN)

| | | | |
|---|--|------|--|
| AIRWORTHINESS INSPECTOR - INSPECTEUR DE NAVIGABILITÉ | | DATE | |
| APPROVED FOR ATTEMPT OF THE FOLLOWING EXAMINATIONS - ADMIS À ENTREPRENDRE LES EXAMENS SUIVANTS: | | | |

| EXAM SUBJECT SUJET DE L'EXAMEN | 480 EXAM CODE CODE DE L'EXAMEN | 490 EXAM TYPE TYPE D'EXAMEN | 500 REGION RÉGION | 510 DATE | 520 FEE FRAIS | 530 RE-TEST REPRISE | 540 MARKS NOTES |
|-----------------------------------|-----------------------------------|--------------------------------|----------------------|----------|------------------|------------------------|--------------------|
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RECOMMENDED FOR ISSUE/ENDORSEMENT TO INCLUDE THE FOLLOWING: - RECOMMANDÉ POUR L'ÉMISSION/ANNOTATION SUIVANTE:

CATEGORY - CATÉGORIE 220 RATINGS - QUALIFICATIONS 240

DJ M Y-A

AIRWORTHINESS INSPECTOR - INSPECTEUR DE NAVIGABILITÉ

DATE

| | | | | |
|---------------------------------------|------------------------|--------------------------|----------------------|---|
| TEMPORARY ISSUE - ÉMIS TEMPORAIREMENT | FEE PAID FRAIS PAYÉ | RECEIPT NO. - N° DU REÇU | AUDIT - VERIFICATION | APPROVED FOR ISSUE - APPROBATION D'ÉMISSION |
| DJ M Y-A | | | | |

INSTRUCTIONS

Part A of this form to be completed by the applicant.
Part B is for Departmental use only.

This form is to be completed in triplicate and all three copies sent to the Regional Manager of Airworthiness, along with sufficient supporting documents in accordance with the Personnel Licensing Handbook, Volume II, Part I.

Following a review of the application, the applicant will be informed of the result of the assessment by return of the completed blue copy. If the application is rejected, the reason for the rejection will be entered in the 'remarks' section, together with details of any additional training or experience required. (In cases of non approval, a new application must be submitted when the required conditions have been met).

If the application is accepted, details of the examinations (if any) which must be completed will be found in the 'exam subject' column.

When attending examinations, the applicant must present the blue copy and proof of identification.

To prevent delays in processing, applicants should ensure that all attached documentation satisfies the requirements of the Personnel Licensing Handbook.

INSTRUCTIONS

La Partie A du formulaire doit être remplie par le candidat. La Partie B est réservée au Ministère.

Ce formulaire doit être rempli en triple, et les trois copies doivent être envoyées au gestionnaire régional de la Navigabilité, avec les pièces à l'appui exigées dans le Manuel de licences du personnel, volume 2, partie 1.

Suite à l'examen du formulaire envoyé par le candidat, ce dernier sera informé du résultat de l'évaluation de sa demande par retour de la copie bleue. Si la demande est rejetée, la raison sera indiquée dans la section "commentaires" et sera accompagnée, s'il y a lieu, de renseignements précis sur la formation et l'expérience complémentaires requises. (Un candidat qui s'est vu refuser une demande doit en faire une autre lorsqu'il croit remplir les conditions exigées.)

Si la demande du candidat est acceptée, les précisions relatives à tout examen que ce dernier est appelé à subir figureront à la colonne "sujet de l'examen".

Le candidat doit se présenter aux examens avec la copie bleue et une pièce d'identité.

Pour éviter les retards, les candidats doivent s'assurer qu'ils ont joint à leur demande tous les documents exigés dans le Manuel de licences du personnel.

APPENDIX "B"

RATING DESIGNATORS

Individual aircraft types, groups of types, or groups of other aeronautical products, may be endorsed on an AME licence in the form of the designators listed against them in the following list. The left-hand column contains the names by which the aircraft or other products are commonly known. Unless otherwise stated, the designators include all variants of the type(s) or products shown, with the exception of any variants which are listed separately. The blanket ratings listed in this appendix may differ from those printed on the AME licence. In cases of conflict this appendix shall prevail.

1. AEROPLANES

(a) Blanket Ratings

| MANUFACTURER/MODEL | TYPE DESIGNATOR |
|---|--------------------|
| All gliders and non-pressurized reciprocating engine powered aeroplanes of a maximum approved take off weight of 5,700 kg (12,566 lbs) and below, plus the following types: DeHavilland Heron Grumman Mallard Scottish Aviation - Twin Pioneer | A1 |
| All gliders and reciprocating engine powered aeroplanes of a maximum approved take off weight of 5,700 kg (12,566 lbs) and below, plus the following types: DeHavilland Heron Grumman Mallard Scottish Aviation - Twin Pioneer | A2 |
| All gliders and non-pressurized turbo-propeller powered aeroplanes of a maximum approved take off weight of 5,700 kg (12,566 lbs) and below, plus the following types: DeHavilland Twin Otter Embraer 110 Grumman Turbo Mallard Short Skyvan Saunders ST27 | A3 |

All gliders and turbo-propeller powered aeroplanes of a maximum approved take off weight of 5,700 kg (12,566 lbs) and below, plus the following types: A4

| | |
|------------------------|---|
| Beech Kingair Series | |
| BAE Jetstream | (includes Handley Page and Scottish Aviation Jetstream) |
| DeHavilland Twin Otter | |
| Embraer 110 | |
| Grumman Turbo Mallard | |
| Short Skyvan | |
| Swearingen Merlin | |
| Saunders ST27 | |

All aircraft which comprise A1 and A3 ratings A5

All aircraft which comprise A2 and A4 ratings A6

(b) Individual type ratings

| <u>MANUFACTURER/MODEL</u> | | <u>DESIGNATOR</u> | <u>COMMENTS</u> |
|---------------------------|-----------------------|-------------------|---------------------------------|
| Aerospatiale | Nord 262 | ND26 | (A1 Super Broussard 200 Series) |
| | | | |
| Airbus Industrie | Airbus(A300) | A300 | |
| | Airbus (A310) | A310 | |
| Armstrong-Whitworth | Argosy(AW650) | HS65 | |
| | | | |
| Aviation Traders | Carvair(ATL98) | AT98 | |
| | | | |
| Avro | Lancaster | AV83 | |
| | York | AV85 | |
| Boeing | B-17 (Fortress) | B17 | |
| | B-97 (Strato Cruiser) | B97 | |
| | 247 | B247 | |
| | 707/720 | B707 | |
| | 727 | B727 | |
| | 737 | B737 | |
| | 747 | B747 | |
| | 767 | B767 | |

| <u>MANUFACTURER/MODEL</u> | <u>DESIGNATOR</u> | <u>COMMENTS</u> |
|---------------------------|-------------------|------------------|
| Bristol | | |
| Britannia | BR31 | |
| Freighter | BR70 | |
| British Aerospace | | |
| BAC111 | BA11 | |
| Canadair | | |
| CL215 | CL21 | |
| CL44 | CL44 | |
| Challenger | CL60 | |
| Cessna | | |
| Citation | C500 | (includes C550) |
| Citation II | C550 | (includes C500) |
| Citation III | C650 | |
| Consolidated Vultee | | |
| Canso | CV14 | |
| Convair | | |
| Convair 440 | CV44 | |
| Convair 580 | CV58 | (includes CV640) |
| Convair 640 | CV64 | (includes CV580) |
| Curtis Wright | | |
| C46 (Commando) | CW46 | (includes CW20) |
| Dassault | | |
| Falcon 10 | DA10 | |
| Falcon 20 | DA20 | |
| Falcon 200 | DA21 | |
| Falcon 50 | DA50 | |
| Falcon 900 | DA90 | |
| De Havilland Canada | | |
| Tracker | DHS2 | |
| Caribou | DH4 | |
| Buffalo | DH5 | |
| Dash-7 | DH7 | |
| Dash-8 | DH8 | |
| Mosquito | DH98 | |
| Comet | HS06 | |

| <u>MANUFACTURER/MODEL</u> | | <u>DESIGNATOR</u> | <u>COMMENTS</u> |
|-----------------------------|-------------------|-------------------|--|
| Douglas | DC-3(Dakota) | DC3 | (includes McDonnell Douglas where applicable) |
| | DC-4 | DC4 | |
| | DC-6 | DC6 | |
| | DC-7 | DC7 | |
| | DC-8 | DC8 | |
| | DC-9 | DC9 | |
| | DC-10 | DC10 | |
| | B-26 | B26 | |
| Fairchild | FH-227 | FA27 | (includes Fokker F-27) |
| Fairy Aviation | Firefly | FF46 | |
| | | | |
| Fokker | F-27 | FA27 | (includes Fairchild FH-227) |
| | | | |
| Grumman | Avenger | GTBM | |
| | Gulfstream I | G159 | |
| | Gulfstream II/III | G2 | |
| | Gulfstream IV | G4 | |
| Handley Page | Herald | HP7 | |
| | | | |
| Hawker Siddeley | HS-125 | DH25 | |
| | HS-748 | HS74 | |
| | | | |
| Howard | Howard 500 | HW5 | |
| | | | |
| Israeli Aircraft Industries | | | |
| | Westwind | AC21 | (includes Rockwell Jet Commander) |
| Lear Jet | Learstar 18 | LR18 | (includes all Lear jets except 50 series) (Lear 50 series only) |
| | Learjet | LR36 | |
| | Learjet | LR55 | |
| | | | |

| <u>MANUFACTURER/MODEL</u> | <u>DESIGNATOR</u> | <u>COMMENTS</u> |
|----------------------------|-------------------|--------------------------------|
| Lockheed | | |
| Neptune | LP2V | |
| L1011 (Tri Star) | L101 | |
| Hudson | L14 | |
| Lodestar | L18 | |
| Electra | L188 | |
| Lockheed 300 | L300 | |
| Jet Star | L329 | |
| Ventura | L34 | |
| P-38 (Lightning) | L38 | |
| Hercules(C130) | L382 | (all L100 series) |
| Constellation | L49 | |
| T-33(Shooting Star) | T33 | |
| Martin | | |
| Mars JRM | MJRM | |
| Messerschmidt-Bolkow-Blohm | | |
| Hansa Jet | HF20 | |
| Mitchell | | |
| B-25 | B25 | |
| Mitsubishi | | |
| Diamond (MU-300) | MU3 | (includes Beech Jet) |
| Nihon | | |
| YS-11 | YS11 | |
| Rockwell | | |
| Sabreliner | N265 | |
| Jet Commander | AC21 | (includes IAI Westwind series) |
| Saunders | | |
| Saunders ST-27 | SA27 | |
| Short Bros. | | |
| SD3-30 | SHD3 | (includes SH36) |
| 360 | SH36 | (includes SHD3) |
| Supermarine | | |
| Stranraer | STRA | |
| Vickers | | |
| Viscount | VC8 | |
| Vanguard | VC9 | |

2. HELICOPTERS

| <u>MANUFACTURER/MODEL</u> | <u>DESIGNATOR</u> | <u>COMMENTS</u> |
|---------------------------|-------------------|-------------------|
| Aerospatiale | | |
| Alouette II | S318 | |
| Alouette III | S316 | |
| Puma/Super Puma | S330 | |
| Gazelle | S341 | |
| Astar | S350 | (includes S355) |
| Twin Star | S355 | (includes S350) |
| Dauphin | S360 | |
| Agusta | | |
| Agusta A109A | A109 | |
| Air and Space | | |
| 18A | A18A | Gyroplane |
| Avian | | |
| VA18 | VA18 | Gyroplane |
| Bell | | |
| 204/205 | BH04 | |
| 206 | BH06 | |
| 212/412 | BH12 | |
| 214 | BH14 | |
| 47 | BH47 | |
| B47T | B47T | (turbine powered) |
| 222 | BH22 | |
| Boeing (Vertol) | | |
| Labrador | BV07 | |
| Chinook | BV14 | |
| BV44 | BV44 | |
| Bolkow (MBB) | | |
| BK117 | MB17 | |
| B0105 | MB05 | |
| Brantly | | |
| B-2 | HB42 | |
| 305 | HB43 | |
| Bristol | | |
| Sycamore | BR71 | |
| Cessna | | |
| Skyhook | C1C | |

| <u>MANUFACTURER/MODEL</u> | <u>DESIGNATOR</u> | <u>COMMENTS</u> |
|---------------------------|-------------------|---------------------------|
| Doman | | |
| D-10B | DM52 | |
| Enstrom | | |
| F-28 | EN28 | |
| Hiller | | |
| FH-1100 | HH11 | |
| UH-12 | HH12 | |
| HH12 | H12T | (turbine powered) |
| 360 | HH36 | |
| Hughes | | |
| 300 | HU30 | (includes all 269 series) |
| 500 | HU50 | (includes all 369 series) |
| McCullough | | |
| J2 | MJ2 | Gyroplane |
| Robinson | | |
| R22 | R22 | |
| Sikorsky | | |
| S-51 | SK51 | |
| S-52 | SK52 | |
| S-55 (piston powered) | SK55 | |
| S-55 (turbine powered) | S55T | |
| S-58 (piston powered) | SK58 | |
| S-58 (turbine powered) | S58T | |
| S-61 | SK61 | |
| S-62 | SK62 | |
| S-64 | SK64 | |
| S-76 | SK76 | |

3. OTHER AERONAUTICAL PRODUCTS

(a) Avionics Systems and Equipment

| <u>EQUIPMENT</u> | <u>DESIGNATOR</u> | <u>COMMENTS</u> |
|--|-------------------|--|
| All aircraft communications and navigation equipment | E1 | |
| All instruments and electrical equipment on rotorcraft of a maximum approved take off weight of 2,730 kg (6,018 lbs) or less and other aircraft of 5,700 kg (12,566 lbs) or less | E2 | (excludes equipment covered by other ratings) |
| All instruments and electrical equipment | E3 | (includes E2, but excludes equipment covered by other ratings) |
| All avionics integrated in hydro-mechanical pneumatic and propulsion systems on rotorcraft of a maximum approved take off weight of 2,730 kg (6,018 lbs) or less and other aircraft of 5,700 kg (12,566 lbs) or less | E4 | |
| All avionics integrated in hydro-mechanical pneumatic and propulsion systems | E5 | |
| All avionics integrated in auto flight equipment on rotorcraft of a maximum approved take off weight of 2,730 kg (6,018 lbs) or less and other aircraft of 5,700 kg (12,566 lbs) or less | E6 | |
| All avionics integrated in auto flight equipment | E7 | |

(b) Airframes

| | | |
|--|----|--|
| All tubular and wood structure airframes in non-pressurized aeroplanes and gliders of a maximum approved take off weight of 5,700 kg (12, 566 lbs) or less | B1 | |
|--|----|--|

| <u>EQUIPMENT</u> | <u>DESIGNATOR</u> | <u>COMMENTS</u> |
|---|-------------------|-----------------|
| All stressed skin and wood structure airframes in non-pressurized aeroplanes and gliders of a maximum approved take off weight of 5,700 kg (12,566 lbs) or less | B2 | |
| All airframes included in B1 and B2 | B3 | |
| All stressed skin and wood structure airframes in aeroplanes and gliders of a maximum approved take off weight of 5,700 kg (12,566 lbs) or less | B4 | |
| All airframes in aeroplanes and gliders of a maximum approved take off weight of 5,700 kg (12,566 lbs) or less | B5 | |
| Airframes other than those listed above will be endorsed on the licence in the form of the aircraft type designators listed in sections 1 and 2 | | |
| (c) Engines and Propellers | | |
| All in-line and opposed engines | D1 | |
| All radial engines | D2 | |
| All engines included in D1 and D2 | D3 | |
| All propellers | P1 | |

APPENDIX "C"

APPROVED TECHNICAL SCHOOL TRAINING

1. BASIC TRAINING PROGRAMS

The courses listed below are approved as meeting the basic training requirements for the categories "A", "R" and "E" as indicated. In addition, except where otherwise noted, they are approved as providing the equivalent of 18 months general experience in the maintenance of aeronautical products or electronics as appropriate.

| <u>SCHOOLS</u> | <u>COURSE TITLE</u> | <u>COURSE DURATION</u> | <u>CATEGORY TO WHICH CREDIT IS APPLICABLE</u> |
|---|---|----------------------------|---|
| British Columbia Institute of Technology 4440 Stark Street Richmond, B.C. V7B 1A1 | Aircraft Maintenance | 1 year | "A" and "R" |
| Canadore College of Applied Arts and Technology P.O. Box 5001 North Bay, Ontario P1B 8K9 | Aircraft Maintenance Technician | 2 years | "A" and "R" |
| | Aircraft Avionics Program | 2 years | "E" |
| L'Ecole d'Aérotechnique du Collège Edouard Montpetit 5555 Place de la Savane St. Hubert, Quebec J3Y 5K2 | Techniques d'entretien d'aéronef | 3 years | "A" and "R" |
| " | Programme de mécanicien d'entretien en avionique | 3 years | "E" |
| " | Programme de mécanicien d'entretien d'aéronef | 1 year | "A" and "R" |
| " (Sept-iles campus) | Programme de mécanicien d'entretien d'aéronef | 1 year | "A" and "R" |

| <u>SCHOOLS</u> | <u>COURSE TITLE</u> | <u>COURSE DURATION</u> | <u>CATEGORY TO WHICH CREDIT IS APPLICABLE</u> |
|--|--|----------------------------|---|
| Centennial College of Applied Arts and Technology 75 Ashtonbee Road Scarborough, Ontario M1L 4N4 | Aircraft Maintenance Technician | 1 year | "A" and "R" |
| " | Avionics Program | 1 year | "E" |
| Confederation College of Applied Arts and Technology P.O. Box 398, Postal Stn. "F" Thunder Bay, Ontario P7C 4W1 | Aircraft Maintenance Program - Aviation Technician | 2 years | "A" and "R" |
| Central Technical School 725 Bathurst Street Toronto, Ontario M5S 2R5 | Aircraft mechanics | *4 years | "A" and "R" |
| District Vocational School P.O. Box 1150 Gander, Newfoundland E1C 2T6 | Aircraft Maintenance Program | 18 months | "A" and "R" |
| Southern Alberta Institute of Technology Aircraft and Mechanical Dept. Colonel James Walker Building 1301 - 16th Avenue, N.W. Calgary, Alberta T2M 0L4 | Aircraft Maintenance Engineering Technology | 2 years | "A" and "R" |
| " | Aircraft Avionics Program | 2 years | "E" |
| Northern Lights College 11401-8 Street Dawson Creek, B.C. VOC 120 | Aircraft Maintenance Engineering | 1 year | "A" and "R" |

| <u>SCHOOLS</u> | <u>COURSE TITLE</u> | <u>COURSE DURATION</u> | <u>CATEGORY TO WHICH CREDIT IS APPLICABLE</u> |
|---|---|----------------------------|---|
| Seneca College of Applied Arts and Technology 1750 Finch Avenue E. Willowdale, Ontario M2N 5T7 | Electronic Engineering Technology - Avionics Option | 2 years | "E" |
| New Brunswick Community College, Moncton 1234, Mountain Road Box 2100, Station "A" Moncton, N.B. E1C 8H9 | Aircraft Maintenance | 1 year | "A" and "R" |
| International Correspondence Schools Ltd, 7475 Sherbrooke St. West Montreal, Quebec H4B 1S4 | Aircraft Mechanic | N/A | No experience credit appli- cable but course meets the basic training requirements for categories "A" and "R" which take effect January 1st, 1990. |

* Provides 12 months credit only.

2. TYPE COURSES

The courses listed below are approved for endorsement of an AME licence to include the types indicated, provided that all other prerequisites listed in the appropriate table of requirements have been met.

(a) Aeroplanes

| <u>Aircraft Type</u> | <u>Training Establishment</u> |
|-------------------------------|---|
| Beech 300 | Beech Aircraft Corporation |
| Boeing 727 | Air Canada* Boeing Aircraft Corp. |
| Boeing 737 | Boeing Aircraft Corp. Canadian Airlines International Nordair |
| Boeing 747 | Air Canada* Boeing Aircraft Corp. Canadian Airlines International |
| Boeing 767 | Air Canada* Boeing Aircraft Corp. |
| Canadair CL215 | Canadair Ltd. |
| Canadair CL600/601 | Canadair Ltd. |
| Convair 580 | Quebecair, Air Ontario, Canadian Airlines International |
| Cessna Citation I, II and III | Flight Safety International |
| Douglas DC-8 | Air Canada* McDonnell Douglas Corp. |
| Douglas DC-9 | Air Canada* McDonnell Douglas Corp. |
| Douglas DC-10 | Canadian Airlines International McDonnell Douglas Corp. |
| Fairchild FH-227 | Canadian Airlines International |
| Falcon 10/20/50/100/200/900 | Flight Safety International |

| <u>Aircraft Type</u> | <u>Training Establishment</u> |
|---------------------------------|--|
| Gulfstream I, II and III | Flight Safety International |
| Hawker Siddeley 125 | Flight Safety International |
| Lear 20, 30 and 50 series | Flight Safety International |
| Lockheed Electra | Canadian Airlines International |
| Lockheed Jetstar | Flight Safety International |
| Lockheed L1011 | Air Canada* Lockheed Aircraft Corp. |
| Mitsubishi MU-300 | Flight Safety International |
| SAAB SF340 | Flight Safety International |
| Sabre Liner 40/60 and 70 series | Flight Safety International |
| Westwind 1124 | Flight Safety International |

* Includes directed independant study courses when taken by employees of the companies concerned.

(b) Helicopters

| <u>Aircraft Type</u> | <u>Training Establishment</u> |
|----------------------|-------------------------------|
| AS350/355 | Aerospatiale |
| Bell 206 | Bell Helicopter Textron |
| Bell 212/412 | Bell Helicopter Textron |
| Bell 214 | Bell Helicopter Textron |
| Bell 222 | Bell Helicopter Textron |
| Bolkow BK117 | Messerschmidt-Bolkow-Blohm |
| Bolkow B0105 | Messerschmidt-Bolkow-Blohm |
| Sikorsky S-76 | Flight Safety International |

The above list is accurate at the time of publication, but courses may be added or deleted without notice. Applicants are advised to contact the nearest DOT office for information on the approval status of particular training courses.

3. CONVERSION COURSES

These courses are intended to provide credit towards various specific experience requirements, such as turbine engine or rotorcraft experience. At the time of publication no conversion courses are approved. The Department of Transport will evaluate suitable courses for approval upon receipt of a written application. Standards for the approval of conversion courses are currently under development. Until such time as conversion courses are formally approved, graduates of courses offered by engine manufacturers may be credited with 3 months towards the requirement for experience in the maintenance of turbine or piston powered aircraft, as applicable. It is anticipated that conversion courses for helicopter ratings and major structural repair will eventually be available.

APPENDIX "D"

IMPLEMENTATION PROCEDURE CATEGORY "E"

1. As an alternative to the requirements of paragraph 3 of Part I, Chapter 2, initial implementation of the basic AME category "E" licence with one or more equipment endorsements may be by means of the following implementation procedure.

- (a) in respect of candidates who are trained and experienced in civil aviation avionics maintenance in Canada the applicant shall:
 - (i) submit to the Department of Transport an Application For Issue, Form 26-0028 plus the supplement form supplied with this Appendix, showing evidence that he has been employed in avionics maintenance for not less than five years, and has performed on-aircraft avionics maintenance for at least three of the five years;
 - (ii) provide evidence that he has graduated from an avionics/electronics program acceptable to the Department of Transport;
 - (iii) successfully complete the regulations and certification procedures, and general aircraft knowledge examinations.

NOTE 1: Depending on related training and experience, applicants who meet the requirements of (a) above may qualify for the endorsement of one or more of the ratings E1, E2, E4. In addition, ratings E3, E5, E6 and E7 may be granted upon proof of training and/or practical experience.

NOTE 2: Personnel who meet the requirements of (a) and who are presently employed in affiliated disciplines, such as avionics instructors at accredited colleges or approved air carrier or manufacturer training departments, avionics quality assurance within the DOT approved organizations, DOT avionics airworthiness inspectors, etc., are also eligible to apply under the provisions of the "Implementation Procedure".

- (b) In respect of candidates who presently hold valid AME licences, category "A", "R" or "B" the applicant shall:
 - (i) submit to the Department of Transport an application, plus the supplement form supplied with this Appendix, detailing his avionics related experience and training;
 - (ii) successfully complete the general avionics knowledge examination referred to in Table 2 of this chapter.

NOTE 1: Subject to proof of acceptable training and experience, applicants who meet the requirements of (b) above will qualify for the endorsement of one or more of the ratings E1, E2 and E4. In addition, ratings E3, E5, E6 and E7 may be granted upon proof of training and/or practical experience.

2. To provide eligible candidates with sufficient time to prepare for and successfully complete the regulation and certification procedures and the general aircraft knowledge or the general avionics knowledge examinations as applicable, the provisions of paragraphs 1. (a) and 1. (b) will remain in effect until December 31, 1987. All requirements for the issue of the licence, including successful completion of all applicable examinations, must be met by that date.
3. With effect from January 1, 1988, processing of applications from those candidates who have not successfully completed the referenced examinations will be in accordance with the normal procedures of chapter 3.
4. Candidates will be limited to one application under the provisions contained in this Appendix. Additional endorsements following licence issue will be subject to meeting the applicable standards.

SUPPLEMENT TO APPLICATION

Form 26-0028 Applicable to Category "E" Licence Implementation Phase

PART A - Details of Employment (attach letters/references or provide statement)

| | <u>Employer(s)</u> | <u>Address/Location</u> | <u>Dates</u> | <u>From</u> | <u> </u> | <u>To</u> | <u> </u> |
|----|--------------------|-------------------------|--------------|-------------|-------------------|-----------|-------------------|
| 1. | | | | | | | |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |
| 6. | | | | | | | |
| 7. | | | | | | | |
| 8. | | | | | | | |

PART B - Details of Electronics Training (attach diplomas, certificates, etc.)

| | <u>Training Institute(s)/ School(s)</u> | <u>Address/ Location</u> | <u>Dates</u> | <u>From</u> | <u> </u> | <u>To</u> | <u> </u> |
|----|---|------------------------------|--------------|-------------|-------------------|-----------|-------------------|
| 1. | | | | | | | |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

PART C - Details of Equipment Familiarization Training (attach certificates)

Note: Course(s) must relate to rating(s) requested.

| | <u>Course(s)</u> | <u>Address/Location</u> | <u>Dates</u> | <u>From</u> | <u> </u> | <u>To</u> | <u> </u> |
|----|------------------|-------------------------|--------------|-------------|-------------------|-----------|-------------------|
| 1. | | | | | | | |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

PART D - APPLICANT'S DECLARATION:

To the best of my knowledge the submitted documentation is accurate in every respect.

Print Name

Signature

Licence No. if held

FOREWORD

The standards detailed in this Part of the Personnel Licensing Handbook relate only to the licensing of Air Traffic Controllers, and must not be construed as pertaining to employment conditions.

All civil Air Traffic Controllers in Canada are employed by the Department of Transport. Therefore, before any licence may be issued, a person shall have successfully undergone:

- (a) a medical examination as specified in the Personnel Licensing Handbook Volume 3 - Medical Requirements;
- (b) selection and employment by the Department of Transport as an Air Traffic Controller-in-Training;
- (c) all necessary approved courses for Air Traffic Control training; and
- (d) practical training and testing at an actual Air Traffic Control unit.

Any person interested in employment as an Air Traffic Controller should contact the nearest office of the Public Service Commission.

PART II
AIR TRAFFIC CONTROLLER LICENCE

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PART II

AIR TRAFFIC CONTROLLER LICENCE

CHAPTER 1 - GENERAL INFORMATION

1. Definitions

- (a) "Air Traffic Controller", in this Part, means a person who is the holder of an Air Traffic Controller Licence issued under Part IV of the Air Regulations (hereinafter to be shown as ATC).
- (b) "Rating", in this Part, means an endorsement under Part XIII of an ATC Licence.
- (c) "Approved Course of Air Traffic Control Training", in this Part, means a course of theoretical and practical training, as set forth in the Air Traffic Control, Manual of Operations and approved by the Director General, Civil Aeronautics, including written examinations and a demonstration of skill".

2. International Civil Aviation Organization

Canada is a Contracting State to the International Civil Aviation Organization and ATC licences are generally in accord with the Standards and Recommended Practices contained in Annex I to the Convention. Canada, in one exception to ICAO Standards, requires the minimum age for the issue of an ATC licence to be 19 years.

3. General Licensing Inquiries

Inquiries with respect to Air Traffic Controller Licences should be made to the Department of Transport Regional Headquarters appropriate to the applicant's place of residence in Canada. The processing of applications, and the issuing of licences are administered by Regional Headquarters at the following locations:-

Regional Director
Aviation Regulation
Department of Transport
Postal Address
P.O. Box 42
Moncton, New Brunswick
E1C 8K6
Office Address
95 Foundry Street
Moncton, New Brunswick
E1C 5H7

Regional Director
Aviation Regulation
Department of Transport
Postal Address
P.O. Box 8550
Winnipeg, Manitoba
R3C 0P6
Office Address
333 Main Street
Winnipeg, Manitoba
R3C 0P6

Regional Manager
Aviation Licensing
Department of Transport
Montreal International Airport
P.O. Box 5000
Dorval, Quebec
H4Y 1B9

Regional Manager
Aviation Licensing
Department of Transport
Federal Public Building
9320-107 Street
Edmonton, Alberta
T5K 1G3

Regional Manager
Aviation Licensing
Department of Transport
4900 Yonge Street
Suite 300
Willowdale, Ontario
M2N 6A5

Regional Manager
Aviation Licensing
Department of Transport
P.O. Box 220
800 Burrard Street
Vancouver, British Columbia
V6Z 2J5

4. General Conditions

The following conditions apply to the issue of an ATC licence:

- (a) Citizenship - An applicant's citizenship must be shown on his aviation personnel licence and must therefore be determined prior to issue of the licence.
- (b) Proof of Citizenship - The following documents are acceptable as proof of citizenship
 - (i) a citizenship certificate;
 - (ii) a valid passport;
 - (iii) a birth or baptismal certificate issued in Canada or in a State whose citizens do not require a passport to travel in Canada. A copy certified by the issuing State or duly notarized is acceptable;
 - (iv) a Canadian Immigration Record and Visa, Form IMM 1000, issued to a landed immigrant by the Department of Employment and Immigration; and
 - (v) an aviation personnel licence showing the citizenship of the holder and issued by the State of which he is a citizen.
- (c) Language
 - (i) An applicant shall be competent in the use of the English language and shall have the ability to speak such language without accent or impediment which would adversely affect two-way radio communication for the exchange of safety and control messages in the aeronautical service.

- (ii) Where bilingual Air Traffic Service is provided, an applicant shall be competent in the use of the English and French language and shall have the ability to speak both languages without accent or impediment which would adversely affect two-way radio communication for the exchange of safety and control messages in the aeronautical service.
- (d) Tests and Examinations - All tests and examinations for issuance of a licence shall be completed and an application submitted during the twelve month period immediately preceding the date of issue of a licence.
- (e) An Air Traffic Controller-in-Training shall obtain a "Restricted Radio-telephone Operator's Certificate" or a higher licence, to operate radio equipment at an aeronautical radio station.
- (f) Age - An applicant shall be not less than nineteen years of age. When proof of age is required it may be provided in one of the following forms
 - (i) a Canadian citizenship certificate;
 - (ii) a birth certificate or copy thereof certified by the issuing authority, or a duly notarized copy thereof;
 - (iii) where a birth certificate cannot be produced a baptismal certificate supported by a statutory declaration in which the applicant declares his age will be accepted; or
 - (iv) a valid Canadian passport.

5. Medical Fitness

- (a) A medical examination required for the issue or revalidation of an aviation personnel permit or licence shall be conducted by a Department of Transport designated medical examiner in accordance with the Medical Standards for Civil Aviation Personnel Licensing. A candidate for issue or revalidation of an aviation personnel permit or licence requiring a medical examination should present himself to
 - (i) a medical examiner listed in the Personnel Licensing Handbook, Volume 3 - Medical Requirements,
 - (ii) a Canadian Forces Regular Medical Officer provided the candidate being examined is either a regular member of the Canadian Forces, an Air Cadet or a civilian in residence on a Canadian Forces Base, or
 - (iii) in the case of a licence holder residing outside of Canada, a medical examiner appointed by the Licence Authority of a Member State of the International Civil Aviation Organization; and

- (b) On completion of the medical examination and assessment of the medical examination report by the Department of Transport, the candidate will be informed of the results of this assessment by issue of a combined Licence Validation Certificate/Student Pilot Permit or by letter.

6. Licence Validation Certificate

- (a) When the holder of a licence undergoes a medical re-examination to extend the medical validity of his licence, he must present his Licence Validation Certificate to the medical examiner and ensure that the examiner endorses the result of the examination in the space provided for that purpose on the back of Form 26-0055.
- (b) Endorsement attesting to a satisfactory medical re-examination by a medical examiner listed in the Personnel Licensing Handbook, Volume 3 - Medical Requirements or a Canadian Forces Regular Medical Officer will constitute revalidation of a licence until issue of a new Licence Validation Certificate by the Department of Transport or for a maximum period of sixty days from the date of medical re-examination, whichever is the earlier.
- (c) Licence holders should note that the Licence Validation Certificate does not have a "valid to" date on it. The holder of a Certificate is responsible for calculating the period of medical validity of the licence or permit using the chart on the reverse side of the Certificate. For example, a licence which is revalidated for all attached privileges until May 1 is valid only until midnight April 30.
- (d) To maintain continuous medical validity of a licence or permit, the holder should arrange to have his next medical examination completed during the last month of the medical validity period of the licence or permit. For example, a holder whose licence or permit is medically valid until October 1, should have his next medical examination during the month of September.

7. Medical Examination Requirements - Issue and Re-Validation of Aviation Personnel Licences

The issue of a Licence Validation Certificate is subject to the receipt and satisfactory assessment of the medical reports, appropriate to the medical category desired, at intervals no less frequently than indicated and such additional information as may be required from time to time. Details of the medical examination requirements are continued in the Personnel Licensing Handbook, Volume 3. For ease of reference, these requirements are summarized in the "Table of Medical Examination Requirements", Appendix "A" to this Chapter.

8. Application

Application for the issue of a licence or endorsement of a rating or location shall be made on Form 26-0145. See sample form in Part II, Chapter 4.

9. Replacement of Personnel Licence

(a) Licence Lost or Destroyed

Provided it is medically valid, a personnel licence that has been lost or destroyed may be replaced on application to the Regional Manager, Aviation Licensing accompanied by

- (i) a \$10.00 fee; and
- (ii) the following declaration:

"I _____ hereby certify that I am the holder of
Name
_____ number _____ issued
Permit/Licence Title
by the Minister of Transport. I declare that the said document
has been lost/destroyed and I hereby apply for the replacement
of the said document.

Date Signature of Applicant"

NOTE It is a summary conviction offence to make a false representation.

NOTE In extenuating circumstances the Regional Manager, Aviation Licensing may waive payment of the fee.

NOTE Licence forms that have become separated at the fold are considered to be destroyed and should be replaced.

(b) Change of Name - Marriage or Court Order

The personnel licence of a person whose name has changed may be replaced without charge on application to the Regional Manager, Aviation Licensing. The application must be accompanied by proof of change of name either through the court or through marriage.

(c) Change of Name-Assumed

For personnel licensing purposes a person may use the name by which he is commonly known without a legal change of name. Applicants who wish to do so are required to submit the following declaration:

Declaration of Name for Personnel Licences

"I am the person whose former name is _____ as shown on the attached document (birth certificate, baptismal certificate, passport, etc). The name that I am known by and commonly use and that I wish to appear on my personnel licence issued by the Minister of Transport is _____. I understand that before further change in my name can be made for licensing purposes, I must submit proof of change of name from the Government of the Province in which I am residing at the time.

Date

Signed (Assumed name)

(d) Change of Citizenship

The personnel licence of a person whose citizenship has changed may be replaced without charge on application to the Regional Manager, Aviation Licensing. The application must be accompanied by proof of citizenship (citizenship certificate, valid passport).

10. Reinstatement of Suspended Licences

(a) Medical Unfitness

To reinstate a personnel licence that has been suspended under Air Regulations paragraph 407(b) for medical unfitness a person shall be required to pass such tests and examinations as are necessary to re-establish his medical fitness.

(b) Incompetence

To reinstate a personnel licence that has been suspended under Air Regulations paragraph 407(b) for incompetence a person may be required to do additional study and training and to pass such tests and examinations as are necessary to demonstrate his competence.

Appendix "A"
Chapter 2

TABLE OF MEDICAL EXAMINATION REQUIREMENTS

| LICENCE DESIRED | MINIMUM MEDICAL CATEGORY REQUIRED | FREQUENCY OF PERIODIC MEDICAL DOCUMENTATION | | | |
|---|-----------------------------------|--|---|--|--|
| | | MEDICAL EXAMINATION REPORT (MER) (i) | ELECTRO-CARDIO-GRAM (ECG) (ii) (v) | AUDIOGRAM (iii) (v) | CHEST X-RAY (iv) |
| <ul style="list-style-type: none"> - Airline Transport - Senior Commercial - Commercial except Ultra-Light Aeroplanes | CAT 1 | <ul style="list-style-type: none"> - every 12 months - after age 40, every 6 months | <ul style="list-style-type: none"> - initial medical examination within 2 years of each medical examination between age 30-40 - within 12 months of each medical examination after age 40 | <ul style="list-style-type: none"> - initial medical examination - within 5 years of the first medical examination after age 55 - other times when clinically indicated | <ul style="list-style-type: none"> - initial medical examination - other times when clinically indicated |
| <ul style="list-style-type: none"> - Air Traffic Controller - Flight Navigator - Flight Engineer | CAT 2 | <ul style="list-style-type: none"> - every 12 months | | <ul style="list-style-type: none"> - not required unless clinically indicated | <ul style="list-style-type: none"> - not required unless clinically indicated |
| <ul style="list-style-type: none"> - Private Pilot - Aeroplanes - Helicopters - Gyroplanes - Balloon Pilot | CAT 3 | <ul style="list-style-type: none"> - every 24 months - after age 40, every 12 months | <ul style="list-style-type: none"> - within 5 years of each medical examination after age 40 | <ul style="list-style-type: none"> - not required unless clinically indicated | <ul style="list-style-type: none"> - not required unless clinically indicated |
| <ul style="list-style-type: none"> - Glider Pilot - Commercial Ultra-light Aeroplane Pilot with inflight instruction endorsement | CAT 3 | <ul style="list-style-type: none"> - every 60 months | | <ul style="list-style-type: none"> - not required unless clinically indicated | <ul style="list-style-type: none"> - not required unless clinically indicated |
| <ul style="list-style-type: none"> - Commercial Ultra-light Aeroplane Pilot with ground monitored instruction endorsement - Private Pilot Ultra-light Aeroplane | CAT 4 or declaration | <ul style="list-style-type: none"> - every 60 months | <ul style="list-style-type: none"> - not required unless clinically indicated | <ul style="list-style-type: none"> - not required unless clinically indicated | <ul style="list-style-type: none"> - not required unless clinically indicated |

- (i) The medical examination shall be completed by a designated Civil Aviation Medical Examiner. The period of validity of the medical examination is calculated from the first day of the month following the date of medical examination.
- (ii) Unless otherwise specified an electrocardiogram shall be a standard 12 lead fasting electrocardiogram.
- (ii)or
- (iii) When an electrocardiogram or audiogram is required "at the next examination" it should be submitted either with the next report of medical examination or within the 30 days preceding the date of medical examination.
- (iv) A satisfactory chest x-ray completed within five years preceding the first medical examination for Category I may be considered to meet the chest x-ray requirements.
- (v) In order for an electrocardiogram or audiogram to be accepted as meeting the above requirements it shall normally be forwarded for receipt by TC, within 60 days of the date of the electrocardiogram or audiogram.

* NOTE: Unless an applicant has been tested satisfactorily during the preceding five years, he shall be tested on a pure tone audiometer at the initial examination for a Medical Category 1 or 2 and at the first medical examination after age 55.

CHAPTER 2 - AIR TRAFFIC CONTROLLER LICENCE

1. Age

An applicant shall be not less than nineteen years of age.

2. Medical Fitness and Re-Validation

An applicant shall have completed the medical examination requirements in accordance with the Medical Standards for Civil Aviation Personnel Licensing and be in possession of Category 1 or 2 Licence Validation Certificate valid for an Air Traffic Controller Licence.

The normal medical validity period for a licence holder is 12 months. Re-validation of the licence is accomplished by satisfactory completion of the medical examination requirements and issue of a new Category 1 or 2 Licence Validation Certificate.

See Part II, Chapter 1, Appendix "A" for Table of Medical Examination Requirements.

3. Knowledge

An applicant shall have successfully completed written examinations on:

- (a) Air Regulations and Air Navigation Orders;
- (b) Air Traffic Control Manual of Operations;
- (c) the principles of air navigation, including the use of altimeters;
- (d) the use and limitations of radio, visual and other aids to air navigation;
- (e) meteorology, including an appreciation of synoptic charts, weather reports and forecasts;
- (f) the performance of various aircraft types relative to air traffic control procedures, including the avoidance of wake turbulence; and
- (g) the basic principles, use and limitations of radar equipment.

4. Experience

An applicant shall have successfully completed an approved course of ATC training and have met all requirements for the endorsement of one of the Ratings detailed in Part II, Chapter 3.

5. Skill

An applicant shall have satisfied the skill requirement for the endorsement of the Rating applied for as detailed in Part II, Chapter 3.

6. Privileges

ATC Licence privileges, which relate to the Rating(s) held, are detailed for the individual ratings in Part II, Chapter 3.

CHAPTER 3 - RATINGS

SECTION 1 - GENERAL

1. Ratings

Ratings to an Air Traffic Controller Licence, which may be endorsed for one or more specified locations, comprise:

- (a) Airport Control;
- (b) Terminal Control; and
- (c) Area Control.

Prior to the issue of an Air Traffic Controller Licence, and before any privileges may be exercised, an applicant shall have met all requirements for the endorsement of a particular rating at a specific location.

2. Validity

Any rating to an Air Traffic Controller Licence shall become invalid when the holder has not exercised the attaching privileges for a period as specified in the ATS Manual of Operations, and the holder must re-establish competency prior to again exercising such privileges.

3. Skill

An applicant shall have demonstrated ability to perform those functions applicable to the privileges to be granted.

SECTION 2 - AIRPORT CONTROL RATING

1. Knowledge

An applicant for an Airport Control Rating shall have successfully completed an approved course of airport control and have demonstrated knowledge of the particular location for which the rating is desired through successful completion of written examinations on:

- (a) airport and control zone rules and traffic characteristics;
- (b) co-ordination procedures between the airport control tower unit and other traffic control units;
- (c) meteorological phenomena peculiar to that airport;
- (d) the alerting of emergency services;

- (e) electronic aids to air traffic control; and
- (f) terrain prominent landmarks and air navigation facilities within a 25 nautical mile radius of the centre of the airport.

2. Experience

During the twelve months preceding the endorsement of an Airport Control Rating, an applicant shall have:

- (a) successfully completed an approved course of ATC training; and
- (b) served satisfactorily under the supervision of a qualified airport controller for:
 - (i) normally not less than three months in the case of the initial issue of an ATC licence;
 - (ii) normally not less than one month in the case of the initial issue of an Airport Control Rating to the holder of an ATC licence endorsed with a Terminal Control or Area Control Rating;
 - (iii) a period of time as necessary to demonstrate competence in the case of the endorsement of an additional location to the holder of an ATC licence with an Airport Control Rating.

3. Privileges

The holder of a valid Air Traffic Controller Licence with an Airport Control Rating may provide, or supervise the provision of, air traffic services at the airport(s) for which the rating is held.

SECTION 3 - TERMINAL CONTROL RATING

1. Knowledge

An applicant for a Terminal Control Rating shall have successfully completed an approved course of IFR control and have demonstrated knowledge of the particular location for which the rating is desired through successful completion of written examinations on:

- (a) control zone and terminal control area rules and traffic characteristics;
- (b) co-ordination procedures between the terminal control unit and other air traffic control units;
- (c) meteorological phenomena peculiar to that terminal control area;
- (d) the alerting of emergency services;

- (e) electronic aids to air traffic control;
- (f) air navigation facilities within, and immediately adjacent to, that terminal control area; and
- (g) holding, approach, missed approach and departure procedures.

2. Experience

During the twelve months preceding the endorsement of a Terminal Control Rating, an applicant shall have:

- (a) successfully completed an approved course of ATC training; and
- (b) served satisfactorily under the supervision of a qualified terminal controller for:
 - (i) normally not less than three months in the case of the initial issue of an ATC licence;
 - (ii) normally not less than one month in the case of the initial issue of a Terminal Control Rating to the holder of an ATC licence endorsed with an Airport Control or Area Control Rating; or
 - (iii) a period of time as necessary to demonstrate competence in the case of the endorsement of an additional location to the holder of an ATC Licence with a Terminal Control Rating.

3. Privileges

The holder of a valid Air Traffic Controller Licence with a Terminal Control Rating may provide, or supervise the provision of, air traffic services within the Terminal Control Area for which the rating is held.

SECTION 4 - AREA CONTROL RATING

1. Knowledge

An applicant for an Area Control Rating shall have successfully completed an approved course of IFR Control and have demonstrated knowledge of the particular location for which the rating is desired through successful completion of written examinations on:

- (a) the rules applicable to all airspace under the jurisdiction of that area control centre;
- (b) co-ordination procedures between the area control centre and other air traffic control units;

- (c) the location and alerting of emergency services;
- (d) electronic aids to air traffic control;
- (e) air navigation facilities underlying, and immediately adjacent to, the airspace under the jurisdiction of that area control centre; and
- (f) holding, approach, missed approach and departure procedures.

2. Experience

During the twelve months preceding the endorsement of an Area Control Rating, and applicant shall have:

- (a) successfully completed an approved course of ATC training; and
- (b) served satisfactorily under the supervision of a qualified area controller for:
 - (i) normally not less than three months in the case of the initial issue of an ATC Licence;
 - (ii) normally not less than two months in the case of the initial issue of an Area Control Rating to the holder of an ATC Licence endorsed with an Airport Control or Terminal Control Rating; or
 - (iii) a period of time as necessary to demonstrate competence in the case of the endorsement of an additional location to the holder of an ATC Licence with an Area Control Rating.

3. Privileges

The holder of a valid Air Traffic Controller Licence with an Area Control Rating may provide, or supervise the provision of, air traffic services within the airspace under the jurisdiction of the Area Control Centre for which the rating is held.

CHAPTER 4 - FORMS

Form 26-0145, Air Traffic Controller Licence Application is referred to in this Handbook and is reproduced for the reference and guidance of all concerned.

DEPARTMENT OF TRANSPORT
APPLICATION - AIR TRAFFIC CONTROLLER LICENCE
 - RATING
 - LOCATION

DOT FILE NUMBER
 5802-
 010
 ► SUBMIT IN DUPLICATE ◄

INSTRUCTIONS

- The conditions of issue, endorsement and re-validation are set forth in Personnel Licensing Handbook, Volume 2, Part 2, Air Traffic Controller.
- Applicant must complete parts A and B as applicable for:
 - issue of ATC licence including rating and location
 - endorsement of an additional rating and location, and
 - endorsement of an additional location.
- Part C must be completed by unit chief.
- When Part D is completed by an "Authorized Person" this application shall be forwarded the same day together with applicable progress report, form 28-0130 or 28-0131 to the Regional Superintendent, Air Regulations for formal licensing action.
- Birth or baptismal certificate or citizenship documents as applicable shall accompany the application unless submitted for a previous licence.

| PART A - PLEASE PRINT IN INK OR TYPE | | | APPLICATION FOR | |
|---|--------------------------------|----------------|---|-----------------------------------|
| FULL CHRISTIAN NAME(S) - NO INITIALS | | SURNAME | | LICENCE <input type="checkbox"/> |
| 050 | MAILING ADDRESS NO AND STREET | | APT NO | AND OR RATING |
| 060 | CITY TOWN | | 080 POSTAL CODE | AIRPORT <input type="checkbox"/> |
| 070 | PROVINCE | | SEX | TERMINAL <input type="checkbox"/> |
| DATE OF BIRTH | | PLACE OF BIRTH | 120 <input type="checkbox"/> M <input type="checkbox"/> F | AREA <input type="checkbox"/> |
| 110 D M Y | CITIZEN OF | | DATE OF LAST MEDICAL | PAR GCA <input type="checkbox"/> |
| 130 | LICENCE VALIDATION CERTIFICATE | | 870 | AT LOCATION |
| YES <input type="checkbox"/> NO <input type="checkbox"/> NUMBER ► | | LICENCE NO | 830 | |
| 010 | | | 170 | |

| PART B - DETAILS OF EXPERIENCE RELATIVE TO LICENCE OR ENDORSEMENT APPLIED FOR | | | |
|---|----------------------------------|-----------------------------------|--|
| TRANSPORT CANADA TRAINING INSTITUTE (BASIC AIR TRAFFIC SERVICES COURSE) | | | COURSE NUMBER |
| OR SPECIAL TRAINING AS APPLICABLE | | | |
| RATING TRAINING FOR | AIRPORT <input type="checkbox"/> | TERMINAL <input type="checkbox"/> | AREA <input type="checkbox"/> PAR GCA <input type="checkbox"/> |
| 780 | 790 | 800 | 810 |
| LOCATION QUALIFICATION AT | | | |
| DATE | | | |
| SIGNATURE OF APPLICANT | | | |

| PART C - CERTIFICATION BY UNIT CHIEF | | | |
|--|---|--------|---|
| This is to certify that the above applicant has met the requirements as set forth in the Personnel Licensing Handbook, Volume 2 and has completed the approved course of training for: | | | |
| (a) An Air Traffic Controller licence and obtained final average marks as follows: | | | |
| 1) ATC | % | 2) MET | % |
| 3) SPCR | | | |
| (b) A rating and location | | | |
| i) And has successfully passed a written test of all required unit knowledge items with a final mark of ____ %. | | | |
| ii) And has demonstrated satisfactory performance of tasks at all levels specified in the unit task analysis and is qualified for an _____ rating at _____. | | | |
| DATE | | | |
| SIGNATURE OF UNIT CHIEF | | | |

| PART D - CERTIFICATION OF LICENCE PRIVILEGES BY AUTHORIZED PERSON | | | |
|---|--------------------------------|--|--------------|
| - Civil Aviation Inspector, Air Regulations or Air Traffic Unit Chief | | | |
| CERTIFICATION WAS MADE ON | | FOR: (1) LICENCE PRIVILEGES <input type="checkbox"/> FOR 60 DAYS FROM THIS DATE OR | |
| D M Y | | | |
| UPON ISSUE OF AN AIR TRAFFIC CONTROLLER LICENCE, WHICHEVER IS EARLIER | | | |
| (2) AN | RATING, AND OR | (3) AT (LOCATION) | |
| BY | | | |
| NAME PRINTED | SIGNATURE OF AUTHORIZED PERSON | LICENCE NO | ORGANIZATION |

| PART E - FOR DEPARTMENTAL USE ONLY | | | |
|------------------------------------|------------------|--|----------------------------|
| DATE OF LAST MEDICAL | MEDICAL CATEGORY | 580 DATE OF LAST ECG | 730 DATE OF LAST AUDIOGRAM |
| 870 D M Y | 830 | D M Y | D M Y |
| CHECKED AND ISSUE RECOMMENDED | | FOR REGIONAL SUPERINTENDENT, AIR REGULATIONS | |
| D M Y | | REGION | |
| CODING | | 020 | |
| CODED BY | | DATE ENTERED FOR PRINT | SIGNATURE |
| D M Y | | | |

MINISTÈRE DES TRANSPORTS
**DEMANDE - LICENCE DE CONTRÔLEUR DE LA
CIRCULATION AÉRIENNE
- QUALIFICATION
- LIEU**

NUMÉRO DE DOSSIER MDT
5802-
010
A PRÉSENTER
EN DOUBLE EXEMPLAIRE

DIRECTIVES

- Les conditions de délivrance, d'annotation et de re-validation sont décrites dans le manuel de licences du personnel, vol. 2, partie 2, contrôleur de la circulation aérienne.
- Le candidat doit remplir les parties A, et B si applicable pour:
 - la délivrance d'une licence ATC avec mention de lieu et qualification;
 - l'annotation de lieu et qualification supplémentaires, et
 - l'annotation d'un lieu supplémentaire.
- Le chef d'unité doit remplir la partie C.
- Quand la partie D a été complétée par une personne dûment autorisée, cette demande sera envoyée le même jour avec un rapport d'activité applicable, formulaire 28-0130 ou 28-0131, au surintendant régional, Règlement de l'Air, pour l'exécution formelle de la licence.
- Un certificat de naissance ou un extrait de baptême ou des pièces établissant la citoyenneté, si applicable, accompagneront cette demande à moins d'avoir été soumis pour une licence antérieure.

| PARTIE A - S.V.P. EN LETTRES MOULÉES AU STYLO OU À LA MACHINE | | | | DEMANDE POUR | |
|---|--|--------------------------------|--------------------|---|-----------------------------------|
| PRENOM(S) AU COMPLET - PAS D'INITIALES | | NOM DE FAMILLE | | LICENCE <input type="checkbox"/> | |
| 050 | ADRESSE POSTALE N° ET RUE | | N° APP | N° DE TELEPHONE | ET/OU QUALIFICATION: |
| 060 | VILLE VILLAGE | | PROVINCE | 080 CODE POSTAL | AÉROPORT <input type="checkbox"/> |
| 070 | DATE DE NAISSANCE | LIEU DE NAISSANCE | SEXE | 120 <input type="checkbox"/> M <input type="checkbox"/> F | TERMINAL <input type="checkbox"/> |
| 110 | J | M | A | | RÉGIONAL <input type="checkbox"/> |
| CITOYENNETÉ | | DATE DU DERNIER EXAMEN MEDICAL | CATÉGORIE MÉDICALE | 830 | PAR GCA <input type="checkbox"/> |
| 130 | CERTIFICAT DE VALIDATION DE LICENCE | | N° LICENCE | 170 | ENDROIT: |
| 010 | <input type="checkbox"/> OUI <input type="checkbox"/> NON N° | | | | |

| PARTIE B - DÉTAILS DE L'EXPÉRIENCE RELIÉE À LA LICENCE OU ANNOTATION DEMANDÉE POUR | |
|--|---|
| INSTITUT DE FORMATION DE TRANSPORTS CANADA (COURS DE BASE DES SERVICES DE CONTRÔLE DE L'AIR) | N° DU COURS |
| OU FORMATION SPÉCIALE SI APPLICABLE | |
| QUALIFICATION DE FORMATION POUR | AÉROPORT <input type="checkbox"/> 780 TERMINAL <input type="checkbox"/> 790 RÉGIONAL <input type="checkbox"/> 800 PAR GCA <input type="checkbox"/> 810 |
| ENDROIT DE QUALIFICATION | |
| DATE | J M A |
| SIGNATURE DU CANDIDAT | |

| PART C - ATTESTATION PAR LE CHEF D'UNITÉ | |
|---|-------|
| J'atteste que le candidat susmentionné s'est conformé aux exigences telles que décrites dans le manuel des licences du personnel, vol. 2 et a complété le cours de formation approuvé pour: | |
| a) Licence de contrôleur de l'air et a obtenu les notes moyennes finales qui suivent: | |
| 1) ATC | % |
| 2) MET | % |
| 3) SPCR | % |
| b) Qualification et lieu | |
| i) Et a réussi avec succès à l'examen écrit sur toutes les connaissances requises par l'unité avec la note finale de ____ %. | |
| ii) Et a démontré un rendement satisfaisant des tâches à tous les niveaux, spécifiées dans l'analyse des tâches de l'unité et est qualifié pour une qualification ____ à ____. | |
| DATE | J M A |
| SIGNATURE DU CHEF DE L'UNITÉ | |

| PARTIE D - ATTESTATION DES PRIVILÈGES DE LICENCE PAR UNE PERSONNE DÛMENT AUTORISÉE: | |
|---|---|
| - Inspecteur de l'aviation civile, règlement de l'air ou chef de l'unité du contrôle de l'air | |
| L'ATTESTATION A ÉTÉ FAITE LE: | POUR: 1) PRIVILÈGES DE LICENCE <input type="checkbox"/> PENDANT 60 JOURS À COMPTER DE |
| CETTE DATE OU JUSQU'À LA DELIVRANCE D'UNE LICENCE DE CONTRÔLEUR DE LA CIRCULATION AÉRIENNE, LA PREMIÈRE DE CES ÉCHÉANCES ÉTANT RETENUE. | |
| (2) QUALIFICATION | ET/OU (3) A (LIEU) |
| PAR | NOM EN LETTRES MOULÉES |
| SIGNATURE DE LA PERSONNE DÛMENT AUTORISÉE | |
| N° DE LICENCE | ÉTABLISSEMENT |

| PARTIE E - À L'USAGE EXCLUSIF DU MINISTÈRE | |
|--|---------------------------------|
| DATE DU DERNIER EXAMEN MEDICAL | CATÉGORIE MÉDICALE |
| 580 DATE DU DERNIER ECG | 730 DATE DU DERNIER AUDIOGRAMME |
| 870 J M A | 830 J M A |
| VERIFIÉ ET DELIVRANCE RECOMMANDÉE | POUR RSAR |
| J M A | REGION |
| CODIFICATION | 020 |
| CODÉ PAR | DATE POUR L'IMPRESSION |
| J M A | SIGNATURE |

